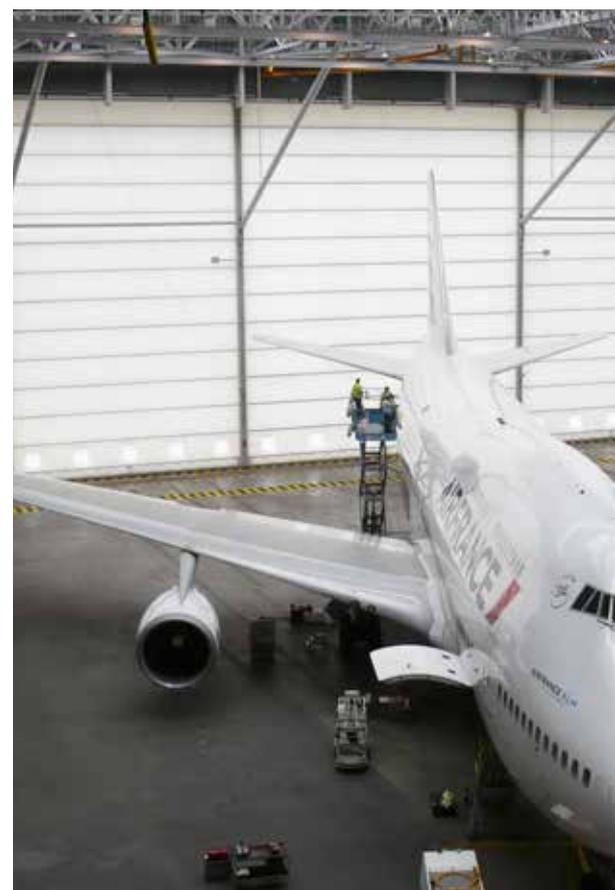
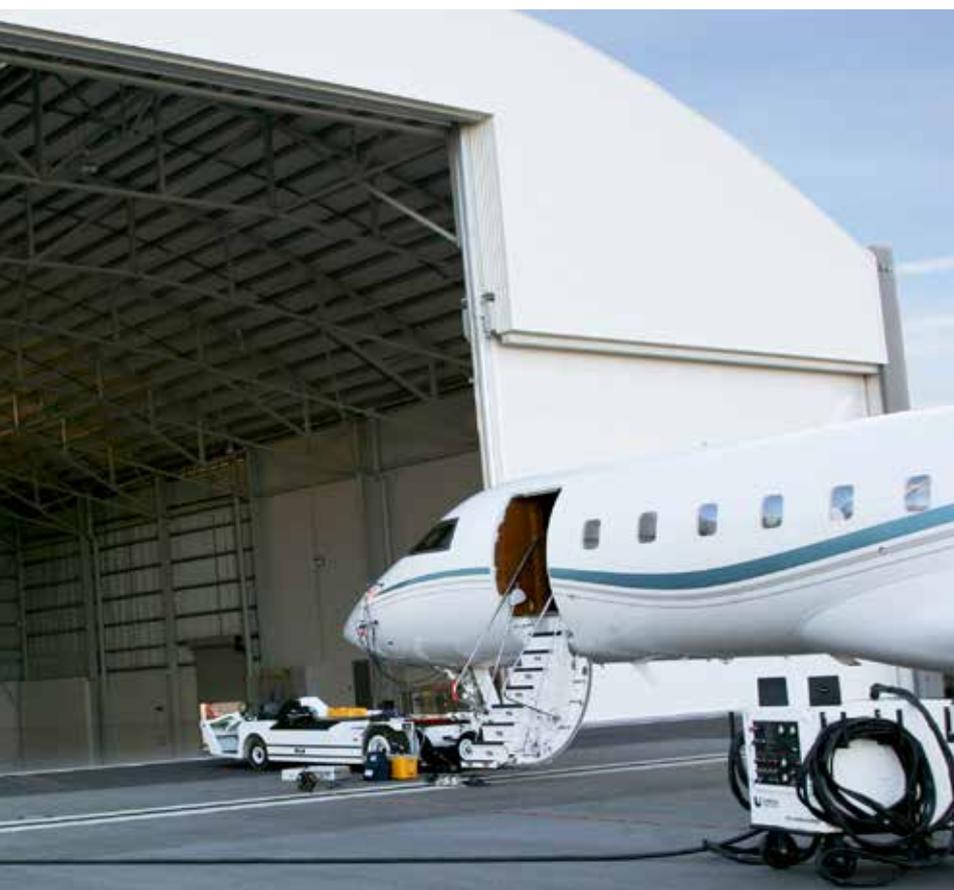


# Complete Entrance Solutions for Aviation

ASSA ABLOY

ASSA ABLOY Entrance Systems

The global leader in  
door opening solutions



# The smart way will help you to grow

Hangar doors are an integral part of every aviation operation's on-time performance capability. To fulfill their role, they must work quickly and with maximum reliability throughout many years of operation.



But these are just the operational considerations. In addition, they must fulfill expectations in a range of other important areas:

- Design and function – optimize hangar design to ensure maximum usable hangar and ramp space while also fulfilling aesthetic and financial requirements.
- Energy and ergonomics – minimize heat loss (or gain) while providing a viable working environment for demanding tasks.
- Safety and security – ensure safe conditions without excessive maintenance demands, and reduce risk of bird infestations.
- Regulations – help you to meet requirements that will enable your facility to gain FAA and/or EASA approval.

Few suppliers can meet all these demands, and even fewer can do so when the door opening is very large. Fortunately, Megadoor can answer your access need, regardless of door opening size, as well as fully satisfy all your requirements – from accessibility and economy, to security and comfort. And ASSA ABLOY Entrance Systems' skilled, experienced engineers are ready to support you throughout the process, from site analysis and engineering specification to installation, commissioning and service support.

## If it works right, it's not there

When they function as they should, hangar doors create no barrier or delay to your workflow. Yet they must simultaneously protect against weather, support indoor temperatures and secure against intrusion. The Megadoor® vertical lifting fabric door does this on a truly large scale. With practically no size limitations whatsoever, it permits quick and easy passage whether you are operating wide body A380s and 747s, corporate business jets, military transporters or the very latest fighter aircraft.

## It's built to take the strain

The Megadoor vertical lifting fabric door was originally designed for industrial environments requiring very large door openings, and which exposed doors to high wind loads, temperature extremes and harsh environments.

This makes it particularly suitable for aircraft hangars. The safety level is high, with a built-in safety monitoring system and door arrestors. It is extremely wind-resistant, due to its unique design and structure.

The Megadoor vertical lifting fabric door offers:

- Fast, reliable performance, even in the harshest operating environments.
- Excellent air tightness & wind resistance.
- Long lifetime. Low operating cost.
- Minimal maintenance needs. Easy to repair.
- Multiple control alternatives. High safety level.
- No floor tracks.

## New builds as well retrofits

A Megadoor solution is not only the best choice for new hangar door installations. It is also the best way to bring older hangars into the modern age, ensuring that their door closures fulfill the stringent requirements of FAA and EASA regulations.

In many cases, by adding an extension to the front of the hangar, it is possible to accommodate larger aircraft, thus generating additional income and faster return on investment.



Great design flexibility

Excellent insulation

No dead space

# The smart way answers all your needs



Though priorities may differ between civil and military aviation – and between operational, manufacturing and MRO facilities – more than 90% of the selection criteria placed on hangar door vendors and their products are the same.

## **Architecture and engineering support**

With practically no footprint, and design flexibility that permits both shaped hangars and an aesthetically pleasing appearance, the Megadoor vertical lifting fabric door is easy to incorporate in your design process, whether for a new installation or a retrofit.

ASSA ABLOY Entrance Systems' skilled engineers are ready to support you right from the start of the consultation process, and can provide a wealth of supporting data to expedite your work. The door's compact design and low weight on the building structure/foundation make it easy to incorporate in the design process, and simple and quick to install. Its innovative design contributes not just to its long-term reliability, but also to its flexibility and even re-usability in temporary installations that require subsequent dismantling.

## **Reliable, safe operation**

The simplicity of the Megadoor design and operation contributes both to superb functionality and long-term reliability.

With no springs or counterweights, and very few moving parts, it requires practically no maintenance. The door's horizontal intermediate beams clamp inner and outer faces of PVC-coated polyester fabric. The door rides in weather-sealed vertical guides that are attached to the building structure. The door's bottom sections are drawn upwards, and intermediate sections stack successively. Wind load transfers to the vertical guides, and the spacing of the intermediate beams enables almost any wind load to be accommodated. The patented safety arrestor locks the door securely, both when closed and in the event of a belt or motor malfunction.

## **Comfort and security in any conditions**

The first Megadoor built in 1973 needed to accommodate temperature differences of over 100°C in northern Sweden's winter weather, where outdoor temperatures often drop to -30°C.

The innovative solution – and a key reason for our global success – was a dual-layer fabric construction supported by unique seals around the door that minimize residual air infiltration. Today, in addition to promoting a comfortable working temperature, the Megadoor fabric is also available in a translucent quality that substantially increases the amount of daylight within the hangar, without the negative effects of direct sunlight. This allows technicians to work under natural lighting conditions, as well as contributing to energy cost savings during the day.

## **Cost-effective hangar door solutions**

Thanks to its unique design, the Megadoor vertical lifting fabric door is fast and easy to operate.

These are excellent reasons to talk to Megadoor, but not the only ones. The flexibility to design your hangar around the air-craft it will serve, with maximum space utilization, is equally important. And, in the long run, the fact that a Megadoor solution requires very little maintenance offers important cumulative cost-savings. Nonetheless, our service staff around the world are always ready to provide professional preventive maintenance that guarantees a long and productive life for your hangar doors.



Double-skin heavy-duty curtain

Safety arrester

Bottom section with floor seal

Swing-up mullion system

Horizontal sections for rigidity

# The smart way has what it takes



Megadoor is a world-leading ASSA ABLOY brand focusing on solutions for exceptional access needs within specific industry segments such as Aviation, Shipyard, Mining and Waste and Recycling.

Though Megadoor solutions answer extraordinary opening needs in industries ranging from aerospace to shipping, smelters and steel mills, thousands of our installations serve aviation customers – both civil and military. We are experts in this field.

Our mission is to consistently deliver the right product at the right time, expertly engineered, competitively priced, and professionally installed and supported. We always provide the right Opening Solution.

## **Military aviation and emergency services**

Megadoor hangar door solutions have been delivered for the military and emergency service organisations worldwide since 1983. Recently, we have installed hundreds of doors for the U.S. Air National Guard, Air Force and Coast Guard, thanks to our ability to develop and deliver superior solutions on-budget and within extremely tight time frames.

Megadoor opening solutions are especially prized by these customers because of their:

- Dependability – will work in any condition, fulfilling the mission.
- Low maintenance needs – do not take valuable budget from other maintenance.
- Space saving – optimal use of available space, ability to accommodate shaped hangar solutions, and no need for the side storage pockets required by conventional doors.
- Fast opening speed – crucial for quick-reaction operations.

## **Civil and corporate aviation**

Hangar doors are an integral part of airline and corporate aviation operations. They must support on-time performance in the face of tight budget

restraints, so cost-effective functional reliability should be without question.

Megadoor hangar door solutions have been supplied to global civil and corporate aviation customers since 1983. Megadoor opening solutions are especially prized in these sectors because they:

- Take less space in the building and are cost-effective in operation.
- Are highly reliable – you can be sure the door will work, and not disrupt operation.
- Create a good working environment – the translucent curtain lets in more light.
- Virtually eliminate draughts when closed, can be opened partially for access, shade and ventilation, and are easy to open and close.

## **Aircraft manufacturing and MRO**

Hangar doors in aircraft manufacturing and MRO are an integral part of the production process, and simply most work without fail – they are often opened and closed dozens of times per day.

Megadoor hangar door solutions have been supplied to world-manufacturing and MRO market since 1978. Megadoor opening solutions are preferred by these demanding customers because they:

- Are highly reliable – you can rely on the door to work and not disrupt operation.
- Take less space in the building, do not ‘steal’ space from production, and are cost-effective in operation.
- Provide a tight seal when closed, promoting a comfortable work environment while saving energy.
- Create a good working environment – the translucent curtain lets in more light.



Unlimited size

Great design flexibility

Swing-up mullion system

No dead space

ASSA ABLOY Entrance Systems is a leading supplier of entrance automation solutions for efficient flow of goods and people. With our globally recognized product brands Besam, Crawford, Megadoor and Albany, we offer products and services dedicated to satisfying end-user needs for safe, secure, convenient and sustainable operations.  
ASSA ABLOY Entrance Systems is a division within ASSA ABLOY.

**ASSA ABLOY**

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